

IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-9 (Cancelled).

10. (New) A radio base station apparatus comprising:
a fading correlation monitor that monitors a fading correlation of radio waves received through a plurality of antenna elements;

a reception method selector that, according to the fading correlation monitored by the fading correlation monitor, selects one of:

a directional reception whereby directivity is formed to receive signals, and

a diversity reception whereby a plurality of signal sequences are combined or selected and received;

a directional receiver that executes the directional reception when the reception method selector selects said directional reception;

a diversity receiver that executes the diversity reception when the reception method selector selects said diversity reception; and

a demodulator that demodulates signals output from the directional receiver or the diversity receiver.

11. (New) The radio base station apparatus of claim 10 wherein the reception method selector selects the directional reception when the fading correlation is greater than a predetermined threshold value and selects the diversity reception when the fading correlation is less than the predetermined threshold value.

12. (New) The radio base station apparatus of claim 10, further comprising:

a transmission method selector that, according to the fading correlation monitored by the fading correlation monitor, selects one of:

a directional transmission whereby directivity is formed to transmit signals, and

a diversity transmission whereby a plurality of signal sequences are combined or selected and transmitted;

a directional transmitter that executes the directional transmission through the plurality of antenna elements when the transmission method selector selects said directional transmission; and

a diversity transmitter that executes the diversity transmission through the plurality of antenna elements when the transmission method selector selects said diversity transmission.

13. (New) The radio base station apparatus of claim 12, wherein the transmission method selector selects the directional transmission when the fading correlation is greater than a predetermined threshold value and selects the diversity transmission when the fading correlation is less than the predetermined threshold value.

14. (New) The radio base station apparatus of claim 12, wherein, the diversity transmission transmits signals at a lower transmission power than by the directional transmission.

15. (New) The radio base station apparatus according to claim 10, wherein the fading correlation monitor estimates an angle spread of a received signal from a communicating party and monitors the fading correlation with reference to the angle spread estimated.

16. (New) The radio base station apparatus of claim 10, wherein the fading correlation monitor calculates a fading

correlation value and monitors the fading correlation with reference to the fading correlation value calculated.

17. (New) A radio communication method comprising:
monitoring a fading correlation of radio waves received through a plurality of antenna elements;
selecting, according to the monitored fading correlation, one of:
a directional reception whereby directivity is formed to receive signals, and
a diversity reception whereby a plurality of signal sequences are combined or selected and received;
executing the directional reception when said directional reception is selected;
executing the diversity reception when said diversity reception is selected; and
demodulating signals output from the directional reception or from the diversity reception.

18. (New) The radio communication method of claim 17, further comprising:
selecting, according to the monitored fading correlation, one of:

a directional transmission whereby directivity is formed to transmit signals, and

a diversity transmission whereby a plurality of signal sequences are combined or selected and transmitted;

executing the directional transmission through the plurality of antenna elements when said directional transmission is selected; and

executing the diversity transmission through the plurality of antenna elements when said diversity transmission is selected.